

Table H. - Engineering Index Properties

Caroline County, Virginia

Absence of an entry indicates that the data were not estimated.

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
1A:												
Altavista	0-14	Loam	CL-ML	A-2	0	0	95-100	93-100	55-95	27-75	21-40	6-16
		Sandy Loam	SC-SM	A-4								
		Fine Sandy Loam										
	14-62	Sandy Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	27-44	12-25
		Loam	SC	A-7								
		Sandy Clay Loam	SC-SM									
		Clay Loam										
Chewacla	---				---	---	---	---	---	---	---	---
Roanoke	---				---	---	---	---	---	---	---	---
Chastain	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
Tomotley	---				---	---	---	---	---	---	---	---
1B:												
Altavista	0-14	Sandy Loam	CL-ML	A-2	0	0	95-100	93-100	55-95	27-75	21-40	6-16
		Fine Sandy Loam	SC-SM	A-4								
		Loam										
	14-62	Sandy Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	27-44	12-25
		Loam	SC	A-7								
		Sandy Clay Loam	SC-SM									
		Clay Loam										
Chastain	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
1B:												
Riverview	---				---	---	---	---	---	---	---	---
Roanoke	---				---	---	---	---	---	---	---	---
Tomotley	---				---	---	---	---	---	---	---	---
2B:												
Appling	0-10	Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	51-70	26-40	17-35	2-13
	10-57	Clay Clay Loam Sandy Clay	SM CL	A-7	0	0	90-100	85-100	76-100	60-95	37-66	21-43
	57-62	Sandy Clay Loam Loam Sandy Loam	CL SC	A-4	0	0	90-100	85-100	51-95	26-75	20-40	6-21
Emporia	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
2C:												
Appling	0-10	Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	51-70	26-40	17-35	2-13
	10-57	Clay Clay Loam Sandy Clay	SM CL	A-7	0	0	90-100	85-100	76-100	60-95	37-66	21-43
	57-62	Sandy Loam Sandy Clay Loam Loam	CL SC	A-4	0	0	90-100	85-100	51-95	26-75	20-40	6-21
Emporia	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
2C:												
Helena	---				---	---	---	---	---	---	---	---
3A:												
Bama	0-4	Sandy Loam	SC	A-2	0	0	90-100	85-100	51-70	26-40	19-33	3-13
			SC-SM	A-4								
			SM									
	4-13	Fine Sandy Loam	CL	A-6	0	0	90-100	85-100	51-95	26-75	27-38	12-19
		Sandy Loam	SC									
		Loam	SC-SM									
	13-79	Clay Loam	CL	A-6	0	0	90-100	85-100	68-100	30-80	29-44	13-25
		Sandy Clay Loam	SC									
Emporia	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---
3B:												
Bama	0-4	Sandy Loam	SC	A-2	0	0	90-100	85-100	51-70	26-40	19-33	3-13
			SC-SM	A-4								
			SM									
	4-13	Loam	CL	A-6	0	0	90-100	85-100	51-95	26-75	27-38	12-19
		Fine Sandy Loam	SC									
		Sandy Loam	SC-SM									
	13-79	Clay Loam	CL	A-6	0	0	90-100	85-100	68-100	30-80	29-44	13-25
		Sandy Clay Loam	SC									
Emporia	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---

4A:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
4A:												
Bibb	0-6	Sandy Loam	SC-SM SM	A-2 A-4	0	0	90-100	85-100	51-70	26-40	0-35	NP-12
	6-62	Gravelly Sand Sand Gravelly Loamy Sand Fine Sandy Loam	CL-ML ML SC-SM SM SP-SM	A-2 A-4	0	0	90-100	85-100	42-85	4-55	0-31	NP-12
Chastain	0-5	Loam	CL CL-ML ML	A-4 A-6 A-7	0	0	95-100	93-100	78-95	55-75	22-51	4-19
	5-31	Clay Clay Loam Silty Clay Loam	CH CL	A-6 A-7	0	0	95-100	93-100	83-100	65-95	39-72	19-43
	31-72	Silty Clay Clay Clay Loam Silty Clay Loam	CH CL	A-6 A-7	0	0	95-100	93-100	83-100	65-95	35-67	18-43
Chewacla	---				---	---	---	---	---	---	---	---
fine loamy poorly drained soils	---				---	---	---	---	---	---	---	---
ponded soils	---				---	---	---	---	---	---	---	---
very poorly drained muck soils	---				---	---	---	---	---	---	---	---

5B:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
5B:												
Bojac	0-8	Fine Sandy Loam	CL-ML	A-2	0	0	95-100	93-100	46-85	14-55	0-33	NP-12
		Loamy Sand	ML	A-4								
		Loamy Fine Sand	SC-SM									
		Sandy Loam	SM									
	8-35	Sandy Loam	SC-SM	A-2	0	0	95-100	93-100	55-85	27-55	18-30	4-12
		Loam		A-4								
		Fine Sandy Loam										
	35-62	Sand	SM	A-1	0	0	85-100	80-100	40-75	4-30	0-20	NP-3
		Loamy Sand	SP	A-2								
				A-3								
Altavista	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
Tarboro	---				---	---	---	---	---	---	---	---
6B:												
Cecil	0-8	Fine Sandy Loam	SC-SM	A-2	0	0-5	90-100	85-100	51-85	26-55	17-33	2-13
		Sandy Loam	SM	A-4								
	8-56	Clay Loam	CL	A-6	0	0-5	90-100	85-100	76-100	60-95	37-66	21-43
		Clay										
	56-72	Loam	CL	A-2	0	0-5	90-100	85-100	51-95	26-75	20-31	6-13
		Sandy Loam	SC	A-4								
				A-6								
Emporia	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
7A:												
Chastain	0-5	Silt Loam Loam	CL CL-ML ML	A-4 A-6 A-7	0	0	95-100	93-100	78-95	55-75	22-51	4-19
	5-31	Silty Clay Loam Clay Clay Loam	CH CL	A-6 A-7	0	0	95-100	93-100	83-100	65-95	39-72	19-43
	31-72	Clay Clay Loam Silty Clay Loam Silty Clay	CL	A-6 A-7	0	0	95-100	93-100	83-100	65-95	35-67	18-43
Roanoke	---				---	---	---	---	---	---	---	---
Rappahannock	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
Tomotley	---				---	---	---	---	---	---	---	---
8A:												
Chewacla	0-8	Sandy Loam Fine Sandy Loam Loam Silt Loam	CL CL-ML ML	A-4 A-6 A-7	0	0	95-100	93-100	55-100	27-90	22-45	6-18
	8-62	Stratified Sand To Clay Silty Clay Loam	CL ML	A-4 A-6 A-7	0	0	90-100	85-100	42-100	4-95	0-52	NP-28
Altavista	---				---	---	---	---	---	---	---	---
Bojac	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
8A:												
Chastain	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
Roanoke	---				---	---	---	---	---	---	---	---
Tomotley	---				---	---	---	---	---	---	---	---
Rappahannock	---				---	---	---	---	---	---	---	---
9C:												
Helena	0-4	Fine Sandy Loam	ML	A-2	0	0	90-100	80-100	48-95	24-75	17-35	2-13
		Loam	SC	A-4								
		Sandy Loam	SC-SM									
	4-57	Clay	SM									
		Sandy Clay	CH	A-7	0	0	90-100	80-100	72-100	56-95	41-69	21-44
		Clay Loam										
	57-70	Sandy Loam	CL	A-4	0	0	90-100	80-100	48-95	24-75	20-40	6-21
		Sandy Clay Loam	SC									
		Loam										
Appling	0-10	Sandy Loam	SC-SM	A-2	0	0	90-100	85-100	51-70	26-40	17-35	2-13
			SM									
	10-57	Clay	CL	A-7	0	0	90-100	85-100	76-100	60-95	37-66	21-43
		Clay Loam										
		Sandy Clay										
	57-62	Sandy Loam	CL	A-4	0	0	90-100	85-100	51-95	26-75	20-40	6-21
		Sandy Clay Loam	SC									
		Loam										
Emporia	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
9C:												
somewhat poorly drained to poorly drained, fine loamy to cla	---				---	---	---	---	---	---	---	---
well drained clayey soils	---				---	---	---	---	---	---	---	---
10E:												
Kempsville	0-7	Fine Sandy Loam Loamy Sand Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	90-100	80-100	40-85	12-55	17-31	2-10
	7-68	Clay Loam Loam Fine Sandy Loam Sandy Clay Loam	CL CL-ML SC	A-2 A-4	0	0	65-100	50-100	35-100	20-80	23-50	7-28
	68-74	Sandy Loam Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	50-100	35-100	21-90	10-80	27-44	12-25

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
10E: Emporia	0-17	Sandy Loam Loam Fine Sandy Loam	CL ML SC SM	A-2 A-4 A-6	0	0	90-100	80-100	48-95	24-75	19-33	3-12
	17-51	Sandy Clay Loam Sandy Clay Loam Clay Clay Loam Fine Sandy Loam Gravelly Sandy Clay Loam	CL SC 	A-2 A-6 A-7	0	0	65-100	50-100	45-95	30-80	31-50	14-29
	51-74	Very Gravelly Sandy Clay Loam Clay Loam Gravelly Clay Loam Clay	CL ML SC SM	A-1 A-2 A-4 A-6	0	0	50-100	35-100	28-100	12-95	18-50	2-29
Remlik	0-6	Loamy Fine Sand Sand Loamy Sand	SM	A-2	0	0	90-100	80-100	40-85	4-45	0-28	NP-7
	6-30	Gravelly Loamy Sand Sand Loamy Sand Gravelly Sand	SC-SM SM SW-SM	A-1 A-2	0	0	60-100	50-100	25-75	2-30	0-24	NP-6
	30-59	Gravelly Sandy Loam Sandy Loam Sandy Clay Loam Fine Sandy Loam	SC SC-SM	A-2 A-4 A-6	0	0	60-100	50-100	30-90	15-55	18-36	4-17
	59-72	Gravelly Sand Gravelly Loamy Sand Sand Loamy Sand	SC-SM SM SP-SM	A-2 A-3	0	0	60-100	50-100	25-75	2-30	0-24	NP-7

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
10E:												
Chastain	---				---	---	---	---	---	---	---	---
Bibb	---				---	---	---	---	---	---	---	---
11A:												
Kempsville	0-7	Sandy Loam Fine Sandy Loam Loamy Sand	CL-ML ML SC-SM	A-2 A-4	0	0	90-100	80-100	40-85	12-55	17-31	2-10
	7-68	Loam Fine Sandy Loam Sandy Clay Loam Clay Loam	CL CL-ML SC	A-2 A-4	0	0	65-100	50-100	35-100	20-80	23-50	7-28
	68-74	Sandy Loam Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	50-100	35-100	21-90	10-80	27-44	12-25
Emporia	0-17	Sandy Loam Loam Fine Sandy Loam	CL ML SC	A-2 A-4 A-6	0	0	90-100	80-100	48-95	24-75	19-33	3-12
	17-51	Sandy Clay Loam Sandy Clay Loam Clay Clay Loam Fine Sandy Loam Gravelly Sandy Clay Loam	CL SC	A-2 A-6 A-7	0	0	65-100	50-100	45-95	30-80	31-50	14-29
	51-74	Gravelly Clay Loam Clay Loam Very Gravelly Sandy Clay Loam Clay	CL ML SC SM	A-1 A-2 A-4 A-6	0	0	50-100	35-100	28-100	12-95	18-50	2-29

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
11A:												
11B:												
Kempsville	0-7	Sandy Loam Fine Sandy Loam Loamy Sand	CL-ML ML SC-SM	A-2 A-4	0	0	90-100	80-100	40-85	12-55	17-31	2-10
	7-68	Loam Fine Sandy Loam Sandy Clay Loam Clay Loam	CL CL-ML SC	A-2 A-4	0	0	65-100	50-100	35-100	20-80	23-50	7-28
	68-74	Sandy Loam Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	50-100	35-100	21-90	10-80	27-44	12-25
Emporia	0-17	Sandy Loam Loam Fine Sandy Loam	CL ML SC	A-2 A-4 A-6	0	0	90-100	80-100	48-95	24-75	19-33	3-12
	17-51	Sandy Clay Sandy Clay Loam Loam Clay Fine Sandy Loam Clay Loam Gravelly Sandy Clay Loam	CL SC	A-2 A-6 A-7	0	0	65-100	50-100	45-95	30-80	31-50	14-29
	51-74	Gravelly Clay Loam Clay Loam Very Gravelly Sandy Clay Loam Clay	CL ML SC SM	A-1 A-2 A-4 A-6	0	0	50-100	35-100	28-100	12-95	18-50	2-29
Roanoke	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
11C:												
Kempsville	0-7	Sandy Loam Fine Sandy Loam Loamy Sand	CL-ML ML SC-SM	A-2 A-4	0	0	90-100	80-100	40-85	12-55	17-31	2-10
	7-68	Sandy Clay Loam Clay Loam Loam Fine Sandy Loam	CL CL-ML SC	A-2 A-4	0	0	65-100	50-100	35-100	20-80	23-50	7-28
	68-74	Sandy Clay Loam Sandy Loam Loam	CL SC	A-2 A-6	0	0	50-100	35-100	21-90	10-80	27-44	12-25
Emporia	0-17	Sandy Loam Loam Fine Sandy Loam	CL ML SC	A-2 A-4 A-6	0	0	90-100	80-100	48-95	24-75	19-33	3-12
	17-51	Sandy Clay Loam Loam Sandy Clay Gravelly Sandy Clay Loam Clay Clay Loam Fine Sandy Loam	CL SC	A-2 A-6 A-7	0	0	65-100	50-100	45-95	30-80	31-50	14-29
	51-74	Very Gravelly Sandy Clay Loam Clay Gravelly Clay Loam Clay Loam	CL ML SC SM	A-1 A-2 A-4 A-6	0	0	50-100	35-100	28-100	12-95	18-50	2-29
Roanoke	---				---	---	---	---	---	---	---	---

12A:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
12A: Myatt	0-9	Sandy Loam Loam	CL-ML	A-4	0	0	99-100	98-100	59-95	29-75	21-43	6-17
	9-53	Fine Sandy Loam Clay Loam	CL	A-2	0	0	99-100	98-100	59-100	29-80	27-44	12-25
		Sandy Clay Loam	SC	A-6								
		Sandy Loam	SC-SM	A-7								
	53-72	Sandy Loam	CL	A-2	0	0	99-100	98-100	59-90	29-55	18-40	3-21
		Sandy Clay Loam	CL-ML	A-4								
		Fine Sandy Loam	SC	A-6								
			SC-SM									
Slagle	0-12	Fine Sandy Loam	SC	A-2	0	0	95-100	93-100	55-85	27-55	20-33	4-12
		Sandy Loam	SC-SM	A-4								
	12-57	Sandy Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	29-50	12-29
		Sandy Clay Loam	SC	A-7								
		Clay Loam										
	57-62	Loamy Sand	CL	A-1	0	0	90-100	80-100	40-100	12-95	16-49	2-28
		Sandy Loam	ML	A-2								
		Silty Clay	SC	A-4								
		Sandy Clay Loam	SM	A-6								
Emporia	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---

13E:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
13E:												
Nevarc	0-9	Loam	SC	A-2	0	0	90-100	80-100	48-95	24-75	20-33	4-12
		Fine Sandy Loam	SC-SM	A-4								
		Sandy Loam										
	9-57	Silty Clay Loam	CH	A-6	0	0	90-100	80-100	64-100	28-95	39-63	21-40
		Silty Clay	CL	A-7								
		Clay										
		Clay Loam										
		Sandy Clay Loam										
		Sandy Clay										
	57-62	Sandy Clay Loam	CL	A-1	0	0	70-100	50-100	25-100	2-95	0-57	NP-36
		Gravelly Sand	ML	A-2								
		Sandy Loam	SC	A-4								
		Clay	SM	A-6								
		Gravelly Sandy Clay Loam										
Remlik	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
14:												
Pits, gravel	---				---	---	---	---	---	---	---	---
Appling	---				---	---	---	---	---	---	---	---
Emporia	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---
Udorthents	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
15A:												
Rappahannock	0-17	Mucky Peat Muck	PT	A-8	0	0	---	---	---	---	---	---
	17-62	Stratified Sand To Silty Clay Silty Clay Loam	CL ML SC SM	A-2 A-4 A-6	0	0	100	100	50-100	5-95	0-76	NP-34
Chastain	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
16B:												
Remlik	0-6	Loamy Fine Sand Sand	SM	A-2	0	0	90-100	80-100	40-85	4-45	0-28	NP-7
	6-30	Loamy Sand Loamy Sand Gravelly Loamy Sand Sand Gravelly Sand	SC-SM SM SW-SM	A-1 A-2	0	0	60-100	50-100	25-75	2-30	0-24	NP-6
	30-59	Gravelly Sandy Loam Sandy Clay Loam Fine Sandy Loam Sandy Loam	SC SC-SM	A-2 A-4 A-6	0	0	60-100	50-100	30-90	15-55	18-36	4-17
	59-72	Gravelly Sand Gravelly Loamy Sand Sand Loamy Sand	SC-SM SM SP-SM	A-2 A-3	0	0	60-100	50-100	25-75	2-30	0-24	NP-7
Emporia	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
16B: Slagle	---				---	---	---	---	---	---	---	---
16C: Remlik	0-6	Loamy Sand	SM	A-2	0	0	90-100	80-100	40-85	4-45	0-28	NP-7
		Loamy Fine Sand										
		Sand										
	6-30	Gravelly Loamy Sand	SC-SM	A-1	0	0	60-100	50-100	25-75	2-30	0-24	NP-6
		Loamy Sand	SM	A-2								
		Gravelly Sand	SW-SM									
		Sand										
	30-59	Fine Sandy Loam	SC	A-2	0	0	60-100	50-100	30-90	15-55	18-36	4-17
		Sandy Loam	SC-SM	A-4								
		Gravelly Sandy Loam		A-6								
		Sandy Clay Loam										
	59-72	Gravelly Loamy Sand	SC-SM	A-2	0	0	60-100	50-100	25-75	2-30	0-24	NP-7
		Gravelly Sand	SM	A-3								
		Loamy Sand	SP-SM									
		Sand										
Emporia	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---
16E:												

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
16E:												
Remlik	0-6	Loamy Sand	SM	A-2	0	0	90-100	80-100	40-85	4-45	0-28	NP-7
		Loamy Fine Sand										
		Sand										
	6-30	Loamy Sand	SC-SM	A-1	0	0	60-100	50-100	25-75	2-30	0-24	NP-6
		Gravelly Loamy Sand	SM	A-2								
		Sand	SW-SM									
		Gravelly Sand										
	30-59	Gravelly Sandy Loam	SC	A-2	0	0	60-100	50-100	30-90	15-55	18-36	4-17
		Sandy Clay Loam	SC-SM	A-4								
		Fine Sandy Loam		A-6								
		Sandy Loam										
	59-72	Gravelly Sand	SC-SM	A-2	0	0	60-100	50-100	25-75	2-30	0-24	NP-7
		Gravelly Loamy Sand	SM	A-3								
		Sand	SP-SM									
		Loamy Sand										
Emporia	---				---	---	---	---	---	---	---	---
Nevarc	---				---	---	---	---	---	---	---	---
17D:												
Rion	0-4	Sandy Loam	SM	A-2	0	0	90-100	80-100	48-70	24-40	17-35	2-13
				A-4								
	4-39	Clay Loam	CL	A-2	0	0	90-100	80-100	48-100	24-80	27-44	12-25
		Sandy Clay Loam	SC	A-6								
		Sandy Loam	SC-SM									
	39-72	Sandy Loam	SC	A-2	0	0	90-100	80-100	48-70	24-40	18-32	3-13
			SC-SM	A-4								
			SM	A-6								
Helena	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
17D:												
Wateree	---				---	---	---	---	---	---	---	---
Rock outcrop	---				---	---	---	---	---	---	---	---
18A:												
Riverview	0-4	Silt Loam	CL	A-4	0	0	100	100	85-95	60-75	21-41	6-19
		Loam	CL-ML	A-6								
	4-45	Clay Loam	CL	A-6	0	0	100	100	70-100	40-80	28-45	12-25
		Loam										
		Fine Sandy Loam										
		Sandy Clay Loam										
	45-62	Loamy Fine Sand	SC-SM	A-2	0	0	100	100	50-85	5-55	16-31	1-12
		Loamy Sand	SM	A-4								
		Fine Sandy Loam										
		Sand										
		Sandy Loam										
Altavista	---				---	---	---	---	---	---	---	---
Bojac	---				---	---	---	---	---	---	---	---
Chastain	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
State	---				---	---	---	---	---	---	---	---
Rappahannock	---				---	---	---	---	---	---	---	---

19A:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
19A:												
Roanoke	0-12	Silt Loam Loam Fine Sandy Loam	CL CL-ML SC SC-SM	A-4 A-6	0	0	90-100	85-100	60-100	34-90	21-43	6-18
	12-49	Clay Loam Silty Clay Loam Clay Silty Clay	CH CL	A-7	0	0	90-100	85-100	76-100	60-95	39-67	21-44
	49-62	Stratified Sand To Clay Clay	CH CL ML SM	A-2-4 A-4 A-6 A-7	0	0	90-100	85-100	42-100	4-95	0-67	NP-44
Altavista	---				---	---	---	---	---	---	---	---
Chastain	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---
20B:												
Rumford	0-11	Fine Sandy Loam Sandy Loam Loamy Sand	SM	A-1 A-2	0	0	90-100	80-100	40-85	12-55	0-26	NP-7
	11-40	Sandy Loam Fine Sandy Loam	SC SC-SM	A-2 A-4 A-6	0	0	90-100	80-100	48-85	24-55	18-38	4-19
	40-62	Loamy Sand	GM SC-SM SM	A-1 A-2 A-3	0	0	50-100	35-100	18-75	5-30	0-30	NP-12
Emporia	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
20B: Slagle	---				---	---	---	---	---	---	---	---
20C: Rumford	0-11	Loamy Sand Fine Sandy Loam Sandy Loam	SM	A-1 A-2	0	0	90-100	80-100	40-85	12-55	0-26	NP-7
	11-40	Sandy Loam Fine Sandy Loam	SC SC-SM	A-2 A-4 A-6	0	0	90-100	80-100	48-85	24-55	18-38	4-19
	40-62	Loamy Sand	GM SM	A-1 A-2 A-3	0	0	50-100	35-100	18-75	5-30	0-30	NP-12
Emporia	---				---	---	---	---	---	---	---	---
Slagle	---				---	---	---	---	---	---	---	---
20D: Rumford	0-11	Loamy Sand Fine Sandy Loam Sandy Loam	SM	A-1 A-2	0	0	90-100	80-100	40-85	12-55	0-26	NP-7
	11-40	Sandy Loam Fine Sandy Loam	SC SC-SM	A-2 A-4 A-6	0	0	90-100	80-100	48-85	24-55	18-38	4-19
	40-62	Loamy Sand	GM SM	A-1 A-2 A-3	0	0	50-100	35-100	18-75	5-30	0-30	NP-12
Emporia	---				---	---	---	---	---	---	---	---
Nevarc	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
20D: Slagle	---				---	---	---	---	---	---	---	---
21C: Slagle	0-12	Sandy Loam	SC	A-2	0	0	95-100	93-100	55-85	27-55	20-33	4-12
		Fine Sandy Loam	SC-SM	A-4								
	12-57	Clay Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	29-50	12-29
		Sandy Loam	SC	A-7								
		Sandy Clay Loam										
	57-62	Silty Clay	CL	A-1	0	0	90-100	80-100	40-100	12-95	16-49	2-28
		Loamy Sand	ML	A-2								
		Sandy Clay Loam	SC	A-4								
		Sandy Loam	SM	A-6								
Kempsville	0-7	Fine Sandy Loam	CL-ML	A-2	0	0	90-100	80-100	40-85	12-55	17-31	2-10
		Loamy Sand	ML	A-4								
		Sandy Loam	SC-SM									
			SM									
	7-68	Loam	CL	A-2	0	0	65-100	50-100	35-100	20-80	23-50	7-28
		Fine Sandy Loam	CL-ML	A-4								
		Sandy Clay Loam	SC									
		Clay Loam										
	68-74	Sandy Loam	CL	A-2	0	0	50-100	35-100	21-90	10-80	27-44	12-25
		Loam	SC	A-6								
		Sandy Clay Loam										
excessivley drained sandy soils	---				---	---	---	---	---	---	---	---
moderately well drained coarse loamy soils	---				---	---	---	---	---	---	---	---

22A:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
22A:												
Slagle	0-12	Fine Sandy Loam	SC	A-2	0	0	95-100	93-100	55-85	27-55	20-33	4-12
		Sandy Loam	SC-SM	A-4								
	12-57	Clay Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	29-50	12-29
		Sandy Loam	SC	A-7								
		Sandy Clay Loam										
	57-62	Silty Clay	CL	A-1	0	0	90-100	80-100	40-100	12-95	16-49	2-28
		Loamy Sand	ML	A-2								
		Sandy Clay Loam	SC	A-4								
		Sandy Loam	SM	A-6								
Myatt	---				---	---	---	---	---	---	---	---
Roanoke	---				---	---	---	---	---	---	---	---
Rumford	---				---	---	---	---	---	---	---	---
Suffolk	---				---	---	---	---	---	---	---	---
Bama	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
22B:												
Slagle	0-12	Fine Sandy Loam	SC	A-2	0	0	95-100	93-100	55-85	27-55	20-33	4-12
		Sandy Loam	SC-SM	A-4								
	12-57	Clay Loam	CL	A-6	0	0	95-100	93-100	55-100	27-80	29-50	12-29
		Sandy Loam	SC	A-7								
		Sandy Clay Loam										
	57-62	Silty Clay	CL	A-1	0	0	90-100	80-100	40-100	12-95	16-49	2-28
		Sandy Clay Loam	ML	A-2								
		Sandy Loam	SC	A-4								
		Loamy Sand	SM	A-6								

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
22B:												
Bama	---				---	---	---	---	---	---	---	---
Kempsville	---				---	---	---	---	---	---	---	---
Myatt	---				---	---	---	---	---	---	---	---
Roanoke	---				---	---	---	---	---	---	---	---
Rumford	---				---	---	---	---	---	---	---	---
23A:												
State	0-17	Sandy Loam Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	99-100	98-100	59-85	29-55	17-31	2-10
	17-53	Sandy Loam Sandy Clay Loam Clay Loam Loam	CL SC	A-6	0	0	99-100	98-100	59-100	29-80	27-43	12-24
	53-62	Stratified Gravelly Sand To Sandy Loam Gravelly Loamy Sand	SC-SM SM SP-SM	A-1 A-2 A-3 A-4	0	0	75-100	63-100	40-90	5-50	0-27	NP-10
Chewacla	---				---	---	---	---	---	---	---	---
Tarboro	---				---	---	---	---	---	---	---	---
23B:												

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
23B:												
State	0-17	Sandy Loam Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	99-100	98-100	59-85	29-55	17-31	2-10
	17-53	Sandy Loam Sandy Clay Loam Clay Loam Loam	CL SC	A-6	0	0	99-100	98-100	59-100	29-80	27-43	12-24
	53-62	Stratified Gravelly Sand To Sandy Loam Gravelly Loamy Sand	SC-SM SM SP-SM	A-1 A-2 A-3 A-4	0	0	75-100	63-100	40-90	5-50	0-27	NP-10
Chewacla	---				---	---	---	---	---	---	---	---
Riverview	---				---	---	---	---	---	---	---	---
Tarboro	---				---	---	---	---	---	---	---	---
23C:												
State	0-17	Sandy Loam Fine Sandy Loam	CL-ML ML SC-SM SM	A-2 A-4	0	0	99-100	98-100	59-85	29-55	17-31	2-10
	17-53	Sandy Loam Sandy Clay Loam Clay Loam Loam	CL SC	A-6	0	0	99-100	98-100	59-100	29-80	27-43	12-24
	53-62	Stratified Gravelly Sand To Sandy Loam Gravelly Loamy Sand	SC-SM SM SP-SM	A-1 A-2 A-3 A-4	0	0	75-100	63-100	40-90	5-50	0-27	NP-10

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
23C:												
Tarboro	---				---	---	---	---	---	---	---	---
24A:												
Suffolk	0-20	Loamy Fine Sand Sandy Loam Fine Sandy Loam	CL-ML ML SC-SM	A-2 A-4	0	0	95-100	93-100	55-85	27-55	18-33	3-12
	20-45	Sandy Loam Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	95-100	93-100	55-100	27-80	20-43	6-23
	45-62	Loamy Sand Sand Loamy Fine Sand	SC-SM SM SP	A-1 A-2 A-4	0	0	85-100	78-100	39-85	4-45	15-23	1-6
Emporia	---				---	---	---	---	---	---	---	---
24B:												
Suffolk	0-20	Fine Sandy Loam Loamy Fine Sand Sandy Loam	CL-ML ML SC-SM	A-2 A-4	0	0	95-100	93-100	55-85	27-55	18-33	3-12
	20-45	Sandy Loam Clay Loam Sandy Clay Loam	CL SC	A-2 A-6	0	0	95-100	93-100	55-100	27-80	20-43	6-23
	45-62	Loamy Sand Sand Loamy Fine Sand	SC-SM SM SP	A-1 A-2 A-4	0	0	85-100	78-100	39-85	4-45	15-23	1-6
Emporia	---				---	---	---	---	---	---	---	---

25B:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
25B:												
Tarboro	0-9	Sand Loamy Sand	SM SW-SM	A-1 A-2 A-3	0	0	95-100	93-100	40-99	8-35	0-26	NP-7
	9-62	Loamy Sand Loamy Coarse Sand Sand	SM SP SP-SM SW-SM	A-1 A-2 A-3	0	0	95-100	50-100	25-75	2-30	0-20	NP-4
Bojac	0-8	Sandy Loam Fine Sandy Loam Loamy Sand Loamy Fine Sand	CL-ML ML SC-SM SM	A-2 A-4	0	0	95-100	93-100	46-85	14-55	0-33	NP-12
	8-35	Fine Sandy Loam Sandy Loam Loam	SC-SM	A-2 A-4	0	0	95-100	93-100	55-85	27-55	18-30	4-12
	35-62	Loamy Sand Sand	SM SP	A-1 A-2 A-3	0	0	85-100	80-100	40-75	4-30	0-20	NP-3
Altavista	---				---	---	---	---	---	---	---	---

26A:

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
26A: Tomotley	0-10	Fine Sandy Loam Loamy Sand Loam Silt Loam Sandy Loam	SC-SM SM	A-2 A-4	0	0	95-100	93-100	46-100	14-90	18-43	2-13
	10-28	Loam Sandy Loam Fine Sandy Loam	CL SC SC-SM	A-2 A-6	0	0	95-100	93-100	55-85	27-55	28-45	12-25
	28-48	Sandy Clay Loam Clay Clay Loam Loam	CL SC SC-SM	A-4 A-6 A-7	0	0	95-100	93-100	74-100	32-80	24-53	9-32
	48-62	Very Gravelly Sand Sand Silty Clay Loam Sandy Clay Loam	CL CL-ML SC SC-SM SP-SC	A-2 A-4 A-6 A-7	0	0	45-100	35-100	18-100	2-95	0-57	NP-36
Roanoke	0-12	Silt Loam Loam Fine Sandy Loam	CL CL-ML SC SC-SM	A-4 A-6	0	0	90-100	85-100	60-100	34-90	21-43	6-18
	12-49	Clay Loam Silty Clay Clay Silty Clay Loam	CH CL	A-7	0	0	90-100	85-100	76-100	60-95	39-67	21-44
	49-62	Stratified Sand To Clay Clay	CH CL ML SM	A-2-4 A-4 A-6 A-7	0	0	90-100	85-100	42-100	4-95	0-67	NP-44
Altavista	---				---	---	---	---	---	---	---	---

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
26A:												
Riverview	---				---	---	---	---	---	---	---	---
Bojac	---				---	---	---	---	---	---	---	---
Chastain	---				---	---	---	---	---	---	---	---
Chewacla	---				---	---	---	---	---	---	---	---
State	---				---	---	---	---	---	---	---	---
27C:												
Udorthents	---				---	---	---	---	---	---	---	---
Bibb	---				---	---	---	---	---	---	---	---
Bojac	---				---	---	---	---	---	---	---	---
Emporia	---				---	---	---	---	---	---	---	---
28A:												
Wehadkee	0-8	Silt Loam	CL	A-6	0	0	100	100	90-100	70-90	21-47	3-18
			ML	A-7								
	8-22	Silt Loam	CL	A-6	0	0	100	100	85-100	60-95	27-47	12-24
		Loam		A-7								
		Sandy Clay Loam										
		Clay Loam										
		Silty Clay Loam										
	22-72	Sandy Loam	CL	A-4	0	0	100	100	60-95	30-75	18-47	4-24
		Sandy Clay Loam	SC	A-6								
		Loam		A-7								

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
28A:												
Riverview	---				---	---	---	---	---	---	---	---
Helena	---				---	---	---	---	---	---	---	---
29A:												
Wickham	0-10	Loamy Sand	CL-ML	A-4	0	0	99-100	98-100	49-95	14-75	20-31	4-10
		Fine Sandy Loam	SC-SM									
		Sandy Loam										
		Loam										
	10-50	Sandy Loam	CL	A-2	0	0	99-100	98-100	59-100	29-80	27-44	12-25
		Loam	SC	A-6								
		Clay Loam		A-7-6								
		Sandy Clay Loam										
	50-72	Gravelly Sand	SM	A-2	0	0	75-100	63-100	31-75	3-30	0-25	NP-7
		Loamy Sand										
		Gravelly Loamy Sand										
		Sand										
Altavista	---				---	---	---	---	---	---	---	---
29B:												

Table H. - Engineering Index Properties - Continued

Caroline County, Virginia

Map Symbol and Soil Name	Depth	USDA Texture	Classification		Fragments		Percent Passing Sieve Number				Liquid Limit	Plasticity Index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				Pct	Pct					Pct	
29B:												
Wickham	0-10	Sandy Loam Loam Loamy Sand Fine Sandy Loam	CL-ML SC-SM	A-4	0	0	99-100	98-100	49-95	14-75	20-31	4-10
	10-50	Loam Sandy Loam Sandy Clay Loam Clay Loam	CL SC	A-2 A-6 A-7-6	0	0	99-100	98-100	59-100	29-80	27-44	12-25
	50-72	Gravelly Loamy Sand Sand Gravelly Sand Loamy Sand	SM	A-2	0	0	75-100	63-100	31-75	3-30	0-25	NP-7
somewhat poorly drained soils	---				---	---	---	---	---	---	---	---
30E:												
Wateree	0-2	Sandy Loam	SM	A-2 A-4	0-1	0-5	85-100	80-100	48-70	24-40	17-31	2-12
	2-38	Channery Fine Sandy Loam Channery Sandy Loam Fine Sandy Loam Sandy Loam	SM	A-2	0	0-5	65-100	50-100	30-85	15-55	16-30	2-12
	38-44	Bedrock	---	---	---	---	---	---	---	---	---	---
	44-79	Bedrock	---	---	---	---	---	---	---	---	---	---
Rock outcrop	0-60	Unweathered Bedrock	---	---	---	---	---	---	---	---	0-14	---
Rion	---				---	---	---	---	---	---	---	---
W:												
Water	---				---	---	---	---	---	---	---	---